



**Design and Technology Topic:** Design and make a moving chair

**Year: 2 Term:** Summer 2

## Key Knowledge/Content:

- To know that a structure is something which has been formed or made from parts.
- To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move.
- To know that a 'strong' structure is one which does not break easily.
- To understand that axles are used in structures and mechanisms to make parts turn in a circle.
- To know that there is always an input and output in a mechanism

## Links to:

### Prior learning:

The children designed, made and evaluated the product. The children were taught about property of materials and how to assemble materials.

### Future learning:

The children will be learning about electrical systems. The children will design, make and evaluate a light up picture.

## Key vocabulary with definition:

### Prior vocabulary:

- Identify – Establish or indicate who or what (someone or something) is.
- Structures – A building or other object constructed from several parts.
- Quality – The standard of something as measured against other things of a similar kind.
- Strengths- The quality or state of being physically strong.
- Weakness - The state or quality of being weak.

### New vocabulary:

- Output- Power, energy or what it produces.
- Input- Is any type of motion and force.
- Process – A series of actions or steps.
- Machine – A device that carries out a task.

## By the end of this unit

**All children can:** **recognise** how their product is suitable for a specific audience and **demonstrate** how to cut and measure materials accurately.

**Most children can:** **demonstrate** how to test their final product and **demonstrate** how to make a moving mechanism.

**Some children can:** **demonstrate** and **explain** the strengths and weaknesses within their product and **explain** and name the different components and their functions.

## Background understanding for teachers and parents:

The children will be researching, designing, making and evaluating a moving chair. The children will research mechanisms and explore the components needed and their functions.

## Curriculum Driver (one):

Communication

### Evidence outcome:

The children are going to be discussing their designs, materials and tools and comparing their work to an architecture.